

Serial No. 09/784,801
Amdt. dated September 29, 2004
Reply to Office Action of June 21, 2004

Attorney Docket No. PF02049NA

Amendments to the Claims:

1. (Currently Amended) A communication system that provides communication services to a plurality of communication devices over one or more radio frequency (RF) channels, comprising:

an operator interface configured to interactively specify a minimum probability of communication service availability to ~~for~~ the plurality of the communication devices, the minimum probability being in the form of a percent availability figure; and

a resource controller configured to receive the minimum probability from the operator interface, change a bit rate used to communicate data with at least one of the plurality of communication devices at least one system parameter based on the minimum probability, and adjust the communication service availability of at least one communication resource used to provide the communication services to the plurality of communication devices according to the changed bit rate while continuing to provide the communication services to all of the plurality of communication devices system parameter.

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2. (Currently Amended) The communication system of claim 1, wherein ~~the service availability is modified by changing the at least one system parameter essentially consisting of one of:~~

~~a number of communication devices that receive the communication services;~~

~~a number of communications devices that receive the communications services in a cell;~~

~~a bit rate over an RF channel used to communicate data with the communication devices;~~

and

the bit rate used to communicate data with the at least one of the plurality of communication devices is changed by modifying a coding algorithm used to communicate information with the at least one of the plurality of communication devices.

3. (Canceled)

4. (Original) The communication system of claim 1, wherein the resource controller monitors one or more system parameters to interactively modify communication service availability to the plurality of the communication devices.

5. (Original) The communication system of claim 4, wherein a system parameter essentially consists of at least one of a number of registered subscribers, load on a RF channel, load on a communication resource, a traffic mix, or a coding algorithm.

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6. (Original) The communication system of claim 4, wherein the resource controller monitors load on one or more communication resources over a defined period of time to determine how to control the at least one communication resource.

7. (Original) The communication system of claim 4, wherein the resource controller monitors the time that a communication resource is out of service for deriving load distributions, to control the at least one communication resource.

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8. (Currently Amended) A method for providing communication services to a plurality of communication devices over one or more radio frequency (RF) channels, comprising:
monitoring at least one system parameter to interactively modify communication service availability to the plurality of communication devices;

specifying a minimum probability of communication service availability ~~to~~ for the plurality of communication devices, the minimum probability being in the form of a percent availability figure;

changing a bit rate used to communicate with at least one of the plurality of communication devices ~~at least one system parameter~~ based on the specified minimum probability; and

adjusting availability ~~of at least one communication resource used to provide the communication services~~ to the plurality of communication devices according to the changed bit rate while continuing to provide the communication services to all of the plurality of communication devices ~~system parameter~~.

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9. (Currently Amended) The method of claim 8, wherein ~~the service availability is modified by changing the at least one system parameter essentially consisting of one of:~~
~~a number of communication devices that receive the communication services;~~
~~a bit rate over an RF channel used to communicate data with the communication devices;~~
and
the bit rate used to communicate data with the at least one of the plurality of communication devices is changed by modifying a coding algorithm used to provide voice services to the at least one of ~~communicate information with the plurality of communication~~ devices.

10. (Canceled)

11. (Previously Presented) The method of claim 8, wherein the at least one system parameter includes at least one of a number of registered subscribers, load on a RF channel, load on a communication resource, a traffic mix, or a coding algorithm.

12. (Currently Amended) The method of claim 11, wherein the load on one or more communication resources is monitored over a defined period of time.

13. (Previously Presented) The method of claim 12, wherein load distributions for each communication resource is derived based on a monitored load on a corresponding communication resource.

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14. (Previously Presented) The method of claim 13, wherein time that a communication resource is out of service is monitored for deriving load distributions.

15. (Currently Amended) The communication system method of claim 1, wherein the operator interface is capable of adjusting a system parameter corresponding to a maximum number of registered subscribers to modify the minimum probability of communication service availability to the plurality of communication devices.

16. (Currently Amended) The method ~~communication system~~ of claim 8, ~~wherein interfacing with the resource controller includes~~ further comprising adjusting a system parameter corresponding to a maximum number of registered subscribers to modify the minimum probability of communication service availability to the plurality of communication devices.

17. (New) The communication system of claim 1, wherein the minimum probability of communication service availability is specified as a number of nines.

18. (New) The method of claim 8, wherein the minimum probability of communication service availability is specified as a number of nines.